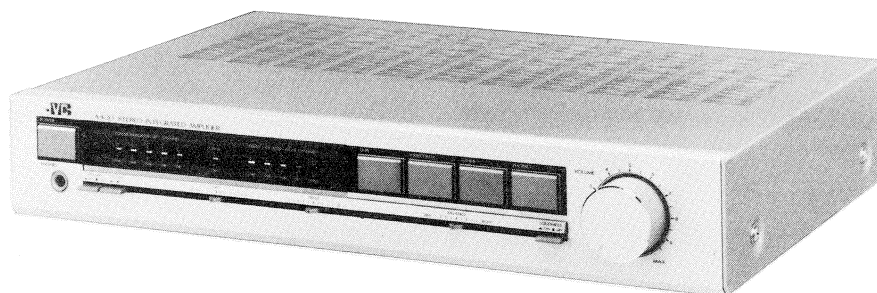


JVC

SERVICE MANUAL


MODEL
A-K20
STEREO INTEGRATED AMPLIFIER



No. 26 15
Mar. 1982

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Warning: When replacing the parts marked with  be sure to use the designated parts to ensure safety.

1. Specifications

Output Power	: 30 watts per channel, min. RMS, both channels driven, into 8 ohms from 20 Hz to 20 kHz, with no more than 0.08% total harmonic distortion	Tone Controls	
	35 watts per channel, min. RMS, both channels driven, into 8 ohms at 1 kHz with no more than 0.7% total harmonic distortion	BASS	: 100 Hz ± 8 dB
Total Harmonic Distortion:	0.08% at Rated output, from 20 Hz to 20 kHz, 8 ohms 0.7% at Rated output at 1 kHz, 8 ohms	TREBLE	: 10 kHz ± 8 dB
Intermodulation		Input Sensitivity/ Impedance	
Distortion	: 0.08% at Rated output, 8 ohms	Phono	: 2.5 mV/47 kohms
Power Band Width	: 10 Hz – 30 kHz (IHF, both channels driven, 8 ohms, 0.08% THD)	TUNER, AUX, TAPE	: 160 mV/40 kohms
Frequency Response	: 10 Hz – 30 kHz +1.0 dB -3 dB	Rec. Output Level	: 150 mV
Damping Factor	: 30 (1 kHz, 8 ohms)	Phono Equalizer Deviation:	±1.0 dB (40 Hz – 15 kHz)
		Phono Overload	: 100 mV (1 kHz, 0.2%)
		Signal to Noise Ratio	
		Phono	: 67 dB (new IHF) 70 dB (IHF)
		TUNER, AUX, TAPE	: 75 dB (new IHF) 90 dB (IHF)
		Loudness Control	: +5 dB at 100 Hz, +3 dB at 10 kHz
		Dimensions	: 77.3(H) x 435(W) x 298.5(D) mm (3"x17-1/8"x11-3/4")
		Weight (Net)	: 4.6 kg (10 lbs)

Design and specifications subject to change without notice.

Power Specifications

Area	Line Voltage & Frequency	Power Consumption
U.S.A. & Canada	AC 120 V, 60 Hz	135 watts, 155 VA
Europe	AC 220 V ~, 50 Hz	220 watts
U.K. & Australia	AC 240 V ~, 50 Hz	220 watts
Other Countries	AC 110/120/220/240 V ~ selectable, 50/60 Hz	280 watts

2. Main Parts Location

2-(1) Front View

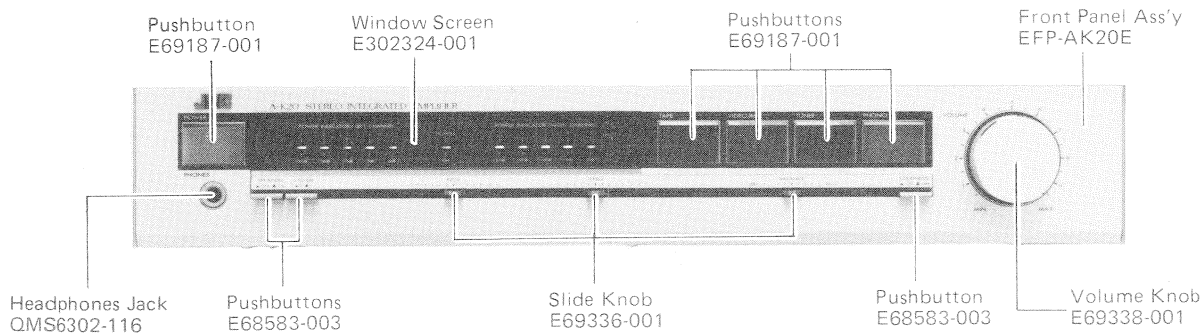


Fig. 1

2-(2) Rear View

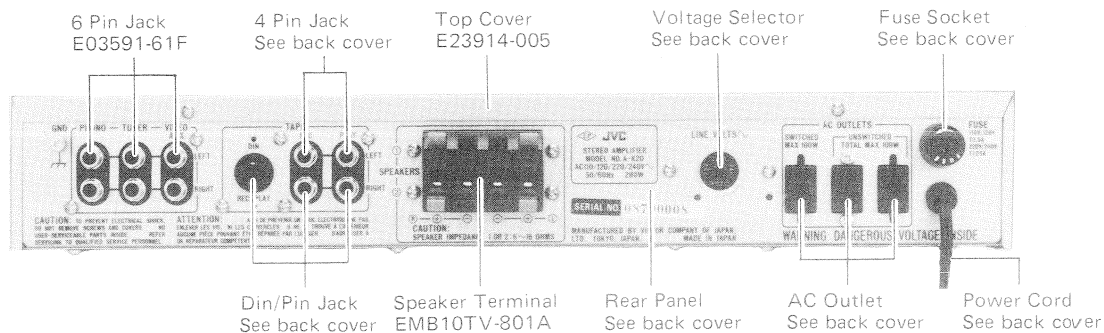


Fig. 2

2-(3) Top View

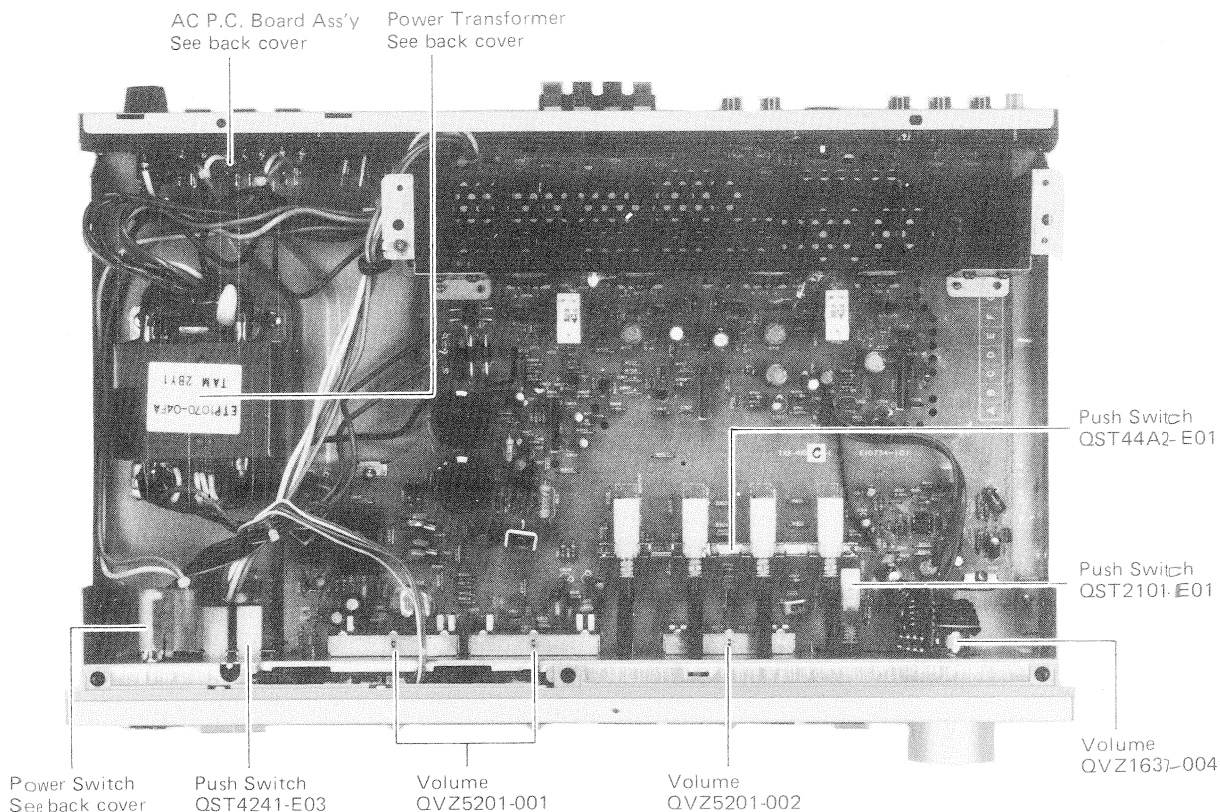


Fig. 3

3. Exploded View and Part Numbers

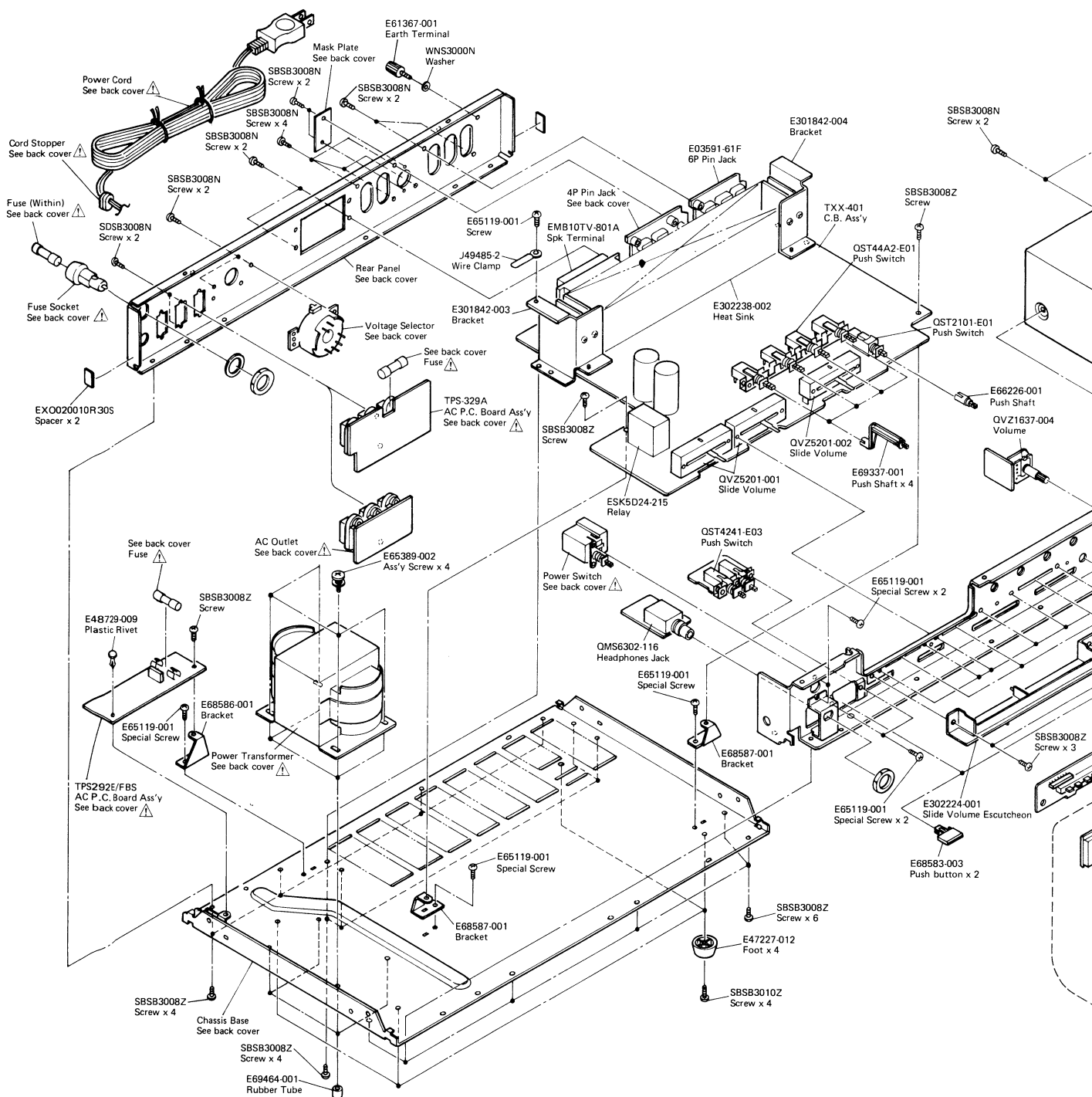


Fig. 4

4. Removal Procedures of Chassis Base

- (1) Remove screws ① and ② on the P.C. board.

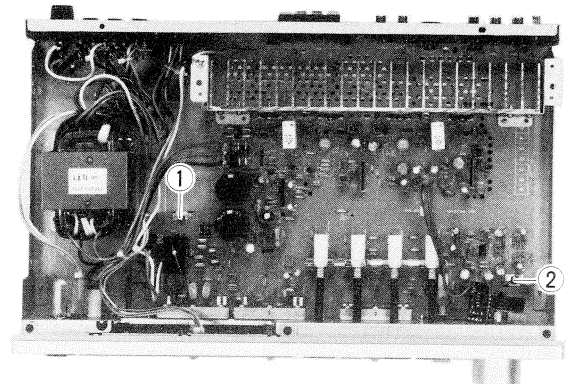


Fig. 5

- (2) Remove screws ③ — ⑮ on the chassis base.

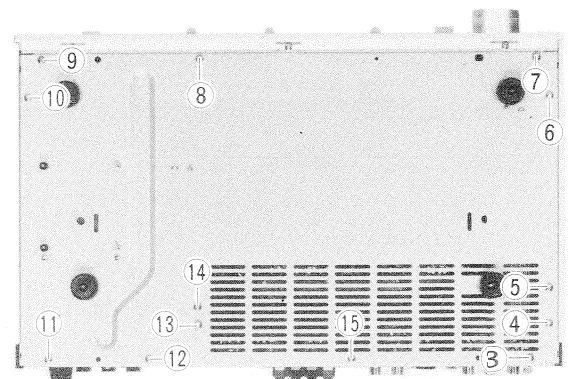


Fig. 6

- (3) Remove the chassis base in this manner shown in Fig. 7.

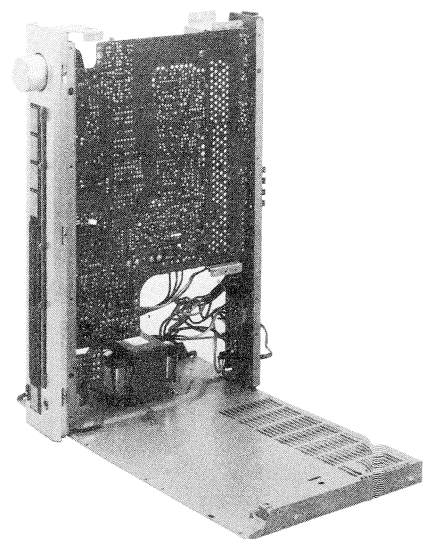
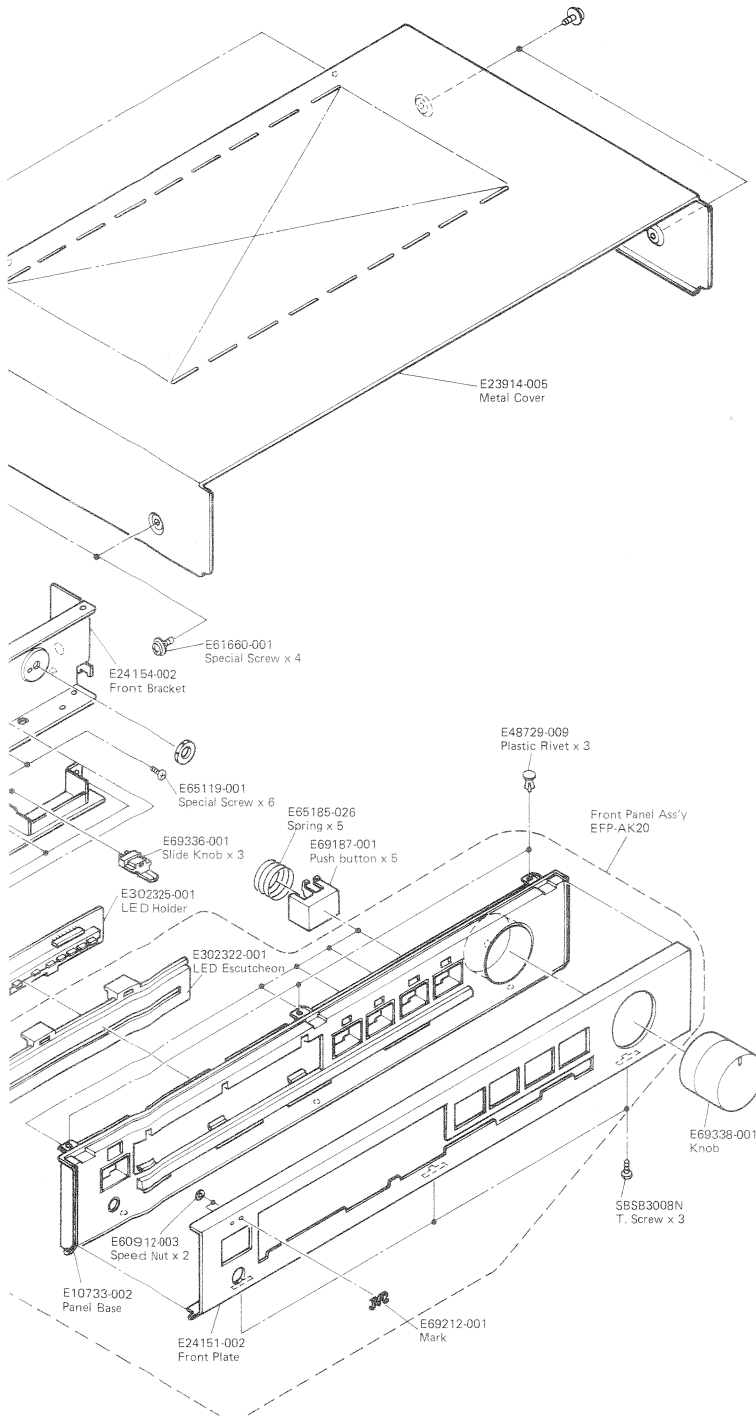


Fig. 7



5. Block Diagram

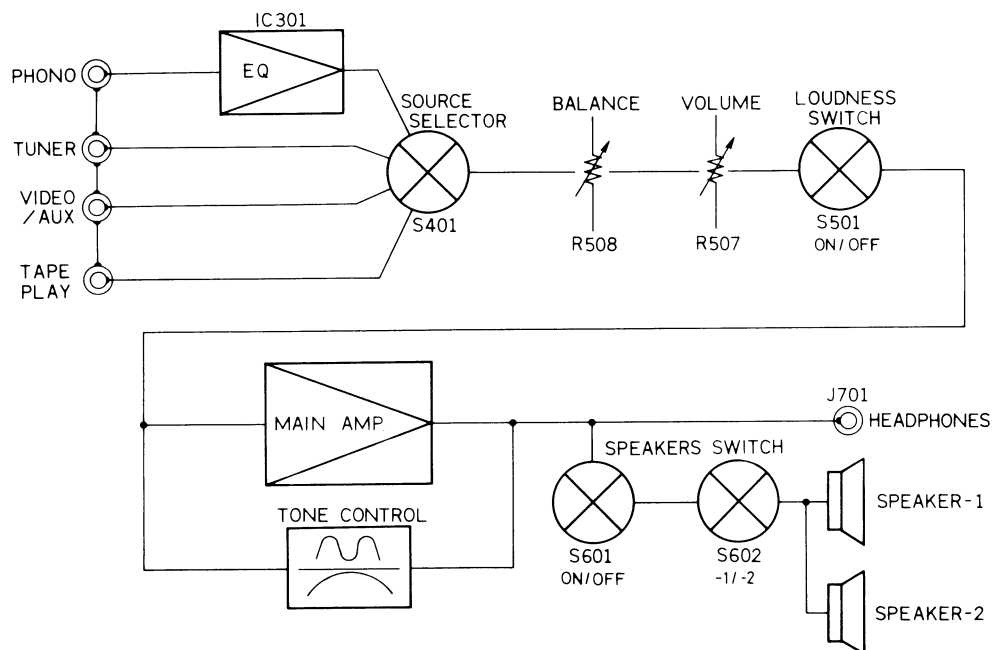


Fig. 8

6. Power Amplifier Idling Current Adjustment Procedures

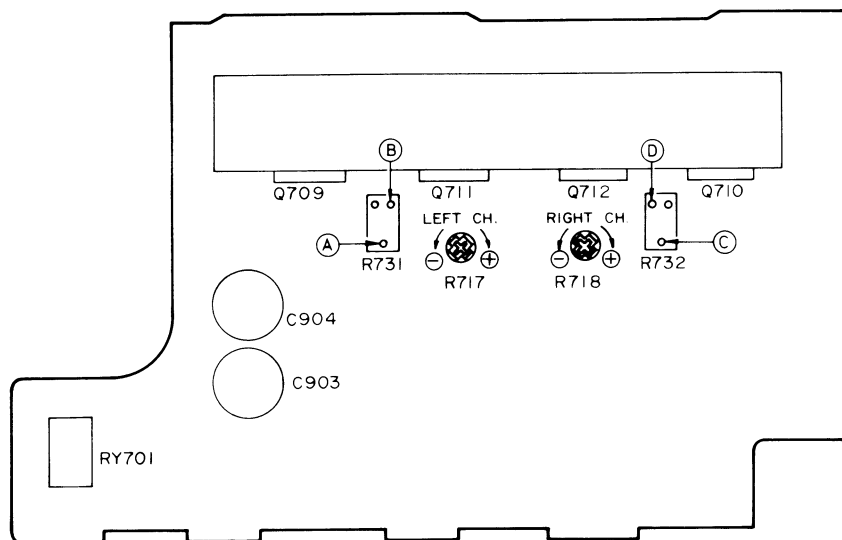


Fig. 9

- Before turning on the power, turn the semi-fixed resistors <R717 for L channel and R718 for R channel> of the power amplifier circuit board fully counter-clockwise.
- Adjust the semi-fixed resistors (R717 and R718) so that the voltage at the following test points of the power amplifier circuit board is within a range of 6 mV ~ 12 mV after the power is turned on.
L channel: Measure the voltage between test point (A) (emitter of Q711) and output at the test point (B).

- R channel: Measure the voltage between test point (C) (emitter of Q712) and output at the test point (D).
- Readjust resistors R717 and R718 about 5 minutes after the power is turned on (the heat sink temperature must be sufficiently high) so that the voltage at the test points becomes 15 mV.
Confirm that the voltage does not vary when the heat sink temperature increases further.

7. Printed Circuit Board Ass'y and Parts List

7-(1) TXX-410□ Main Amp P.C.Board Ass'y

Note: TXX-410□-1 varies according to the areas employed. See note (1) when placing an order.

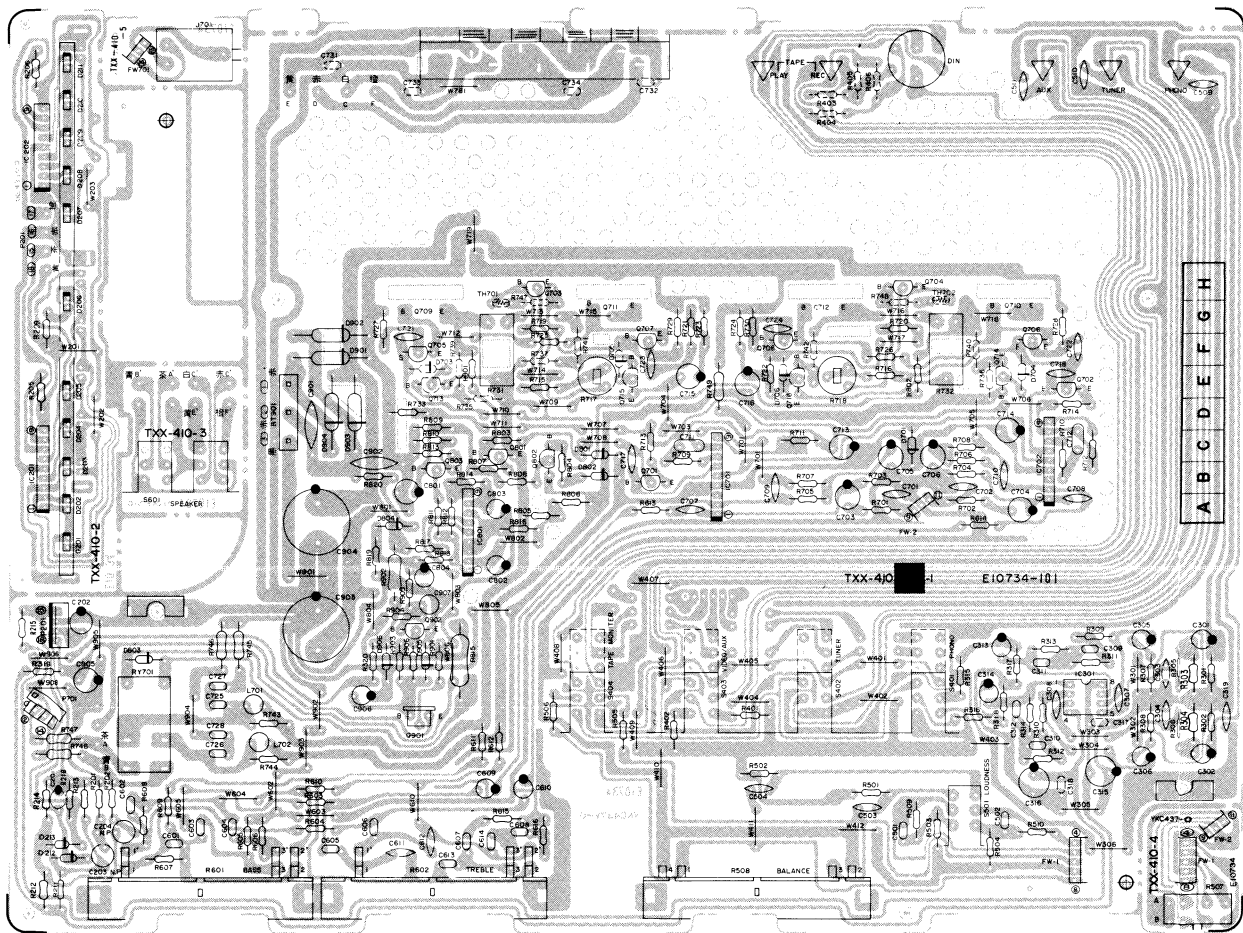


Fig. 10

Each Individual P.C. Board Location

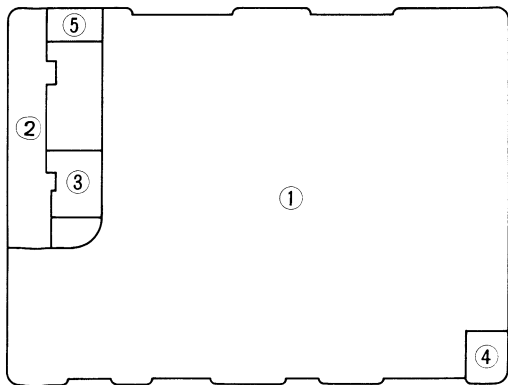


Fig. 11

- ① TXX-410-1 Main P.C. Board Ass'y
- ② TXX-410-2 Peak Indicator P.C. Board Ass'y
- ③ TXX-410-3 Speaker Switch P.C. Board Ass'y
- ④ TXX-410-4 Volume P.C. Board Ass'y
- ⑤ TXX-410-5 Head Phone P.C. Board Ass'y

Note (1)

Designated Areas	P.C. Board Ass'y
U.S.A. & Canada	TXX-410□-1
U.K., Europe & Australia	TXX-410□-1
U.S. Military Market & other countries	TXX-410□-1
W. Germany	TXX-410□-1

Note (2)

The symbols (赤 , 黒 , 白 ...) on P.C. Board surface are factory process only.

Transistors

Item No.	Part Number	Rating	Description	
				Maker
Q701	2SA949(Y)		Silicon	Toshiba
Q702	2SA949(Y)		Silicon	Toshiba
Q703	2SC2546(E,F)		Silicon	Hitachi
Q704	2SC2546(E,F)		Silicon	Hitachi
Q705	2SC2235(O,Y)		Silicon	Toshiba
Q706	2SC2235(O,Y)		Silicon	Toshiba
Q707	2SA965(O,Y)		Silicon	Toshiba
Q708	2SA965(O,Y)		Silicon	Toshiba
Q709	2SD718(R,O)		Silicon	Toshiba
Q710	2SD718(R,O)		Silicon	Toshiba
Q711	2SB688(R,O)		Silicon	Toshiba
Q712	2SB688(R,O)		Silicon	Toshiba
Q801	2SC1775AV(E,F)		Silicon	Hitachi
Q802	2SC1775AV(E,F)		Silicon	Hitachi
Q803	2SA872AV(E)		Silicon	Hitachi
Q901	2SD313V(D,E)		Silicon	Sanyo
Q902	2SC1775AV(E,F)		Silicon	Hitachi

Integrated Circuits

Item No.	Part Number	Rating	Description	
				Maker
IC201	AN6875			Matsushita
IC202	AN6875			Matsushita
IC301	NJM4558D-D			Dainichi
IC701	AN7060			Matsushita
IC702	AN7060			Matsushita
IC801	TA7317P			Toshiba

Diodes

Item No.	Part Number	Rating	Description	
				Maker
D201	GL-9NG230		L.E.D.	Sharp
D202	GL-9NG230		L.E.D.	Sharp
D203	GL-9NG230		L.E.D.	Sharp
D204	GL-9NG230		L.E.D.	Sharp
D205	GL-9NG230		L.E.D.	Sharp
D206	GL-9PR230		L.E.D.	Sharp
D207	GL-9NG230		L.E.D.	Sharp
D208	GL-9NG230		L.E.D.	Sharp
D209	GL-9NG230		L.E.D.	Sharp
D210	GL-9NG230		L.E.D.	Sharp
D211	GL-9NG230		L.E.D.	Sharp
D212	1S2076-31		Silicon	Hitachi
D213	1S2076-31		Silicon	Hitachi
D701	R D6.2EB3		Zener	NEC
D801	1S2076-31		Silicon	Hitachi
D802	1S2076-31		Silicon	Hitachi
D803	1S2076-31		Silicon	Hitachi
D804	1S2076-31		Silicon	Hitachi
D901	S3V20F		Silicon	Shindengen
D902	S3V20F		Silicon	Shindengen
D903	S3V20F		Silicon	Shindengen
D904	S3V20F		Silicon	Shindengen
D905	R D15EB3		Zener	NEC
D906	R D15EB3		Zener	NEC

Coils

Item No.	Part Number	Rating	Description
L701	Y O0087-002		Coil
L702	Y O0087-002		Coil

Capacitors

Item No.	Part Number	Rating		Description
C201	QET61HM-474Z	0.47 μ F	50 V	Electrolytic
C202	QET61HM-474Z	0.47 μ F	50 V	Electrolytic
C203	QE20046-475	4.7 μ F	50 V	N.P. Electrolytic
C204	QE20046-475	4.7 μ F	50 V	N.P. Electrolytic
C301	QET61HM-475Z	4.7 μ F	50 V	Electrolytic
C302	QET61HM-475Z	4.7 μ F	50 V	Electrolytic
C303	QCS31HJ-471Z	470 pF	50 V	Ceramic (for W.
C304	QCS31HJ-471Z	470 pF	50 V	Ceramic Germany only)
C305	QET61AM-107Z	100 μ F	10 V	Electrolytic
C306	QET61AM-107Z	100 μ F	10 V	Electrolytic
C307	QCS31HJ-101Z	100 pF	50 V	Ceramic
C308	QCS31HJ-101Z	100 pF	50 V	Ceramic
C309	QFM31HJ-182Z	1800 pF	50 V	Mylar
C310	QFM31HJ-182Z	1800 pF	50 V	Mylar
C311	QFM31HJ-682Z	6800 pF	50 V	Mylar
C312	QFM31HJ-682Z	6800 pF	50 V	Mylar
C313	QET61HM-475Z	4.7 μ F	50 V	Electrolytic
C314	QET61HM-475Z	4.7 μ F	50 V	Electrolytic
C315	QET61EM-107Z	10 μ F	25 V	Electrolytic
C316	QET61EM-107Z	10 μ F	25 V	Electrolytic
C317	QFM81HJ-473	0.047 μ F	50 V	Mylar (for W.
C318	QFM81HJ-473	0.047 μ F	50 V	Mylar Germany only)
C319	QCF31HP-103Z	0.01 μ F	50 V	Ceramic
C501	QFM31HJ-273Z	0.027 μ F	50 V	Mylar
C502	QFM31HJ-273Z	0.027 μ F	50 V	Mylar
C503	QCS31HJ-271Z	220 pF	50 V	Ceramic
C504	QCS31HJ-271Z	220 pF	50 V	Ceramic
C509	QCF31HP-103Z	0.01 μ F	50 V	Ceramic
C510	QCF31HP-103Z	0.01 μ F	50 V	Ceramic
C511	QCF31HP-103Z	0.01 μ F	50 V	Ceramic
C601	QFM31HJ-333Z	0.033 μ F	50 V	Mylar
C602	QFM31HJ-333Z	0.033 μ F	50 V	Mylar
C603	QFM81HJ-224	0.22 μ F	50 V	Mylar
C604	QFM81HJ-224	0.22 μ F	50 V	Mylar
C605	QFM31HJ-222Z	2200 pF	50 V	Mylar
C606	QFM31HJ-222Z	2200 pF	50 V	Mylar
C607	QFM31HJ-223Z	0.022 μ F	50 V	Mylar
C608	QFM31HJ-223Z	0.022 μ F	50 V	Mylar
C609	QET61EM-106Z	10 μ F	25 V	Electrolytic
C610	QET61EM-106Z	10 μ F	25 V	Electrolytic
C611	QCS31HJ-331Z	330 pF	50 V	Ceramic
C612	QCS31HJ-331Z	330 pF	50 V	Ceramic
C613	QFM31HJ-272Z	2700 pF	50 V	Mylar
C614	QFM31HJ-272Z	2700 pF	50 V	Mylar
C701	QCS31HJ-101Z	100 pF	50 V	Ceramic
C702	QCS31HJ-101Z	100 pF	50 V	Ceramic
C703	QET61HM-475Z	4.7 μ F	50 V	Electrolytic
C704	QET61HM-475Z	4.7 μ F	50 V	Electrolytic
C705	QET61AM-107Z	100 μ F	10 V	Electrolytic
C706	QET61AM-107Z	100 μ F	10 V	Electrolytic
C707	QCS31HJ-101Z	100 pF	50 V	Ceramic
C708	QCS31HJ-101Z	100 pF	50 V	Ceramic
C709	QCS31HJ-100Z	10 pF	50 V	Ceramic
C710	QCS31HJ-100Z	10 pF	50 V	Ceramic
C711	QCS31HJ-471Z	470 pF	50 V	Ceramic
C712	QCS31HJ-471Z	470 pF	50 V	Ceramic
C713	QET51HM-107H	100 μ F	50 V	Electrolytic
C714	QET51HM-107H	100 μ F	50 V	Electrolytic
C715	QET61HM-476Z	47 μ F	50 V	Electrolytic
C716	QET61HM-476Z	47 μ F	50 V	Electrolytic
C717	QCS31HJ-390Z	39 pF	50 V	Ceramic
C718	QCS31HJ-390Z	39 pF	50 V	Ceramic
C721	QCS31HJ-181Z	180 pF	50 V	Ceramic
C722	QCS31HJ-181Z	180 pF	50 V	Ceramic
C723	QCS31HJ-181Z	180 pF	50 V	Ceramic
C724	QCS31HJ-181Z	180 pF	50 V	Ceramic
C725	QFM81HJ-473	0.047 μ F	50 V	Mylar
C726	QFM81HJ-473	0.047 μ F	50 V	Mylar

Capacitors

Item No.	Part Number	Rating		Description
C727	QFM31HJ-473Z	0.047 μ F	50 V	Mylar
C728	QFM31HJ-473Z	0.047 μ F	50 V	Mylar
C731	QFM31HJ-102Z	1000 pF	50 V	Mylar
C732	QFM31HJ-102Z	1000 pF	50 V	Mylar
C733	QFM31HJ-102Z	1000 pF	50 V	Mylar
C734	QFM31HJ-102Z	1000 pF	50 V	Mylar
C801	QET61CM-226Z	22 μ F	16 V	Electrolytic
C802	QET61AM-476Z	47 μ F	10 V	Electrolytic
C803	QET61CM-226Z	22 μ F	16 V	Electrolytic
C804	QET61HM-225Z	2.2 μ F	50 V	Electrolytic
C901	QCE22HP-103A	0.01 μ F	500 V	Ceramic (for U.S.A. and Canada)
C901	QFZ0075-474H	0.47 μ F	400 V	Mylar (for W. Germany)
C901	QFZ0075-104H	0.1 μ F	400 V	Mylar (for Other Areas)
C902	QCE22HP-103A	0.01 μ F	500 V	Ceramic
C903	QEZ0061-478	4700 μ F	50 V	Electrolytic
C904	QEZ0061-478	4700 μ F	50 V	Electrolytic
C905	QET61EM-107Z	10 μ F	25 V	Electrolytic
C906	QET61EM-107Z	10 μ F	25 V	Electrolytic
C907	QEZ0046-475	4.7 μ F	50 V	N.P. Electrolytic

Resistors

Item No.	Part Number	Rating		Description
R201	QRD141J-472S	4.7 k Ω	1/4 W	Carbon
R202	QRD141J-472S	4.7 k Ω	1/4 W	Carbon
R205	QRD141J-332S	3.3 k Ω	1/4 W	Carbon
R206	QRD141J-332S	3.3 k Ω	1/4 W	Carbon
R209	QRD141J-152S	1.5 k Ω	1/4 W	Carbon
R211	QRD141J-105S	1 M Ω	1/4 W	Carbon
R212	QRD141J-105S	1 M Ω	1/4 W	Carbon
R213	QRD141J-823S	82 k Ω	1/4 W	Carbon
R214	QRD141J-823S	82 k Ω	1/4 W	Carbon
R215	QRD141J-474S	470 k Ω	1/4 W	Carbon
R216	QRD141J-474S	470 k Ω	1/4 W	Carbon
R301	QRD141J-224S	220 k Ω	1/4 W	Carbon
R302	QRD141J-224S	220 k Ω	1/4 W	Carbon
R303	QRD141J-563S	56 k Ω	1/4 W	Carbon
R304	QRD141J-563S	56 k Ω	1/4 W	Carbon
R305	QRD141J-222S	2.2 k Ω	1/4 W	Carbon
R306	QRD141J-222S	2.2 k Ω	1/4 W	Carbon
R307	QRD141J-751S	750 Ω	1/4 W	Carbon
R308	QRD141J-751S	750 Ω	1/4 W	Carbon
R309	QRD141J-821S	820 Ω	1/4 W	Carbon
R310	QRD141J-821S	820 Ω	1/4 W	Carbon
R311	QRD141J-393S	39 k Ω	1/4 W	Carbon
R312	QRD141J-393S	39 k Ω	1/4 W	Carbon
R313	QRD141J-474S	470 k Ω	1/4 W	Carbon
R314	QRD141J-474S	470 k Ω	1/4 W	Carbon
R315	QRD141J-471S	470 Ω	1/4 W	Carbon
R316	QRD141J-471S	470 Ω	1/4 W	Carbon
R317	QRD141J-104S	100 k Ω	1/4 W	Carbon
R318	QRD141J-104S	100 k Ω	1/4 W	Carbon
R319	QRD149J-101S	100 Ω	1/4 W	Carbon Δ
R320	QRD149J-101S	100 Ω	1/4 W	Carbon Δ
R401	QRD141J-332S	3.3 k Ω	1/4 W	Carbon
R402	QRD141J-332S	3.3 k Ω	1/4 W	Carbon
R403	QRD141J-334S	330 k Ω	1/4 W	Carbon (except U.S.A.)
R404	QRD141J-334S	330 k Ω	1/4 W	Carbon (except U.S.A.)
R405	QRD141J-104S	100 k Ω	1/4 W	Carbon
R406	QRD141J-104S	100 k Ω	1/4 W	Carbon
R501	QRD141J-224S	220 k Ω	1/4 W	Carbon
R502	QRD141J-224S	220 k Ω	1/4 W	Carbon
R503	QRD141J-223S	22 k Ω	1/4 W	Carbon
R504	QRD141J-223S	22 k Ω	1/4 W	Carbon
R505	QRD141J-472S	4.7 k Ω	1/4 W	Carbon

Resistors

Item No.	Part No.	Rating		Description
R506	QRD141J-472S	4.7 k Ω	1/4 W	Carbon
R507	QVZ1637-004			Variable
R508	QVZ5201-002			Variable
R509	QRD141J-683S	68 k Ω	1/4 W	Carbon
R510	QRD141J-683S	68 k Ω	1/4 W	Carbon
R601	QVZ5201-001			Variable
R602	QVZ5201-001			Variable
R603	QRD141J-123S	12 k Ω	1/4 W	Carbon
R604	QRD141J-123S	12 k Ω	1/4 W	Carbon
R605	QRD141J-182S	1.8 k Ω	1/4 W	Carbon
R606	QRD141J-182S	1.8 k Ω	1/4 W	Carbon
R607	QRD141J-823S	82 k Ω	1/4 W	Carbon
R608	QRD141J-823S	82 k Ω	1/4 W	Carbon
R609	QRD141J-182S	1.8 k Ω	1/4 W	Carbon
R610	QRD141J-182S	1.8 k Ω	1/4 W	Carbon
R611	QRD141J-472S	4.7 k Ω	1/4 W	Carbon
R612	QRD141J-472S	4.7 k Ω	1/4 W	Carbon
R613	QRD141J-562S	5.6 k Ω	1/4 W	Carbon
R614	QRD141J-562S	5.6 k Ω	1/4 W	Carbon
R615	QRD141J-561S	560 Ω	1/4 W	Carbon
R616	QRD141J-561S	560 Ω	1/4 W	Carbon
R701	QRD141J-222S	2.2 k Ω	1/4 W	Carbon
R702	QRD141J-222S	2.2 k Ω	1/4 W	Carbon
R703	QRD141J-104S	100 k Ω	1/4 W	Carbon
R704	QRD141J-104S	100 k Ω	1/4 W	Carbon
R705	QRD141J-821S	820 Ω	1/4 W	Carbon
R706	QRD141J-821S	820 Ω	1/4 W	Carbon
R707	QRD141J-104S	100 k Ω	1/4 W	Carbon
R708	QRD141J-104S	100 k Ω	1/4 W	Carbon
R709	QRD141J-391S	390 Ω	1/4 W	Carbon
R710	QRD141J-391S	390 Ω	1/4 W	Carbon
R711	QRD149J-391S	390 Ω	1/4 W	Carbon Δ
R712	QRD149J-391S	390 Ω	1/4 W	Carbon Δ
R713	QRZ0052-560	56 Ω	1/4 W	Fusible Δ
R714	QRZ0052-560	56 Ω	1/4 W	Fusible Δ
R715	QRD141J-102S	1 k Ω	1/4 W	Carbon
R716	QRD141J-102S	1 k Ω	1/4 W	Carbon
R717	QVP4A0B-222	2.2 k Ω		Variable
R718	QVP4A0B-222	2.2 k Ω		Variable
R719	QRD141J-102S	1 k Ω	1/4 W	Carbon
R720	QRD141J-102S	1 k Ω	1/4 W	Carbon
R721	QRD149J-332S	3.3 k Ω	1/4 W	Carbon Δ
R722	QRD149J-332S	3.3 k Ω	1/4 W	Carbon Δ
R723	QRD141J-242S	2.4 k Ω	1/4 W	Carbon
R724	QRD141J-242S	2.4 k Ω	1/4 W	Carbon
R725	QRD149J-221S	220 Ω	1/4 W	Carbon Δ
R726	QRD149J-221S	220 Ω	1/4 W	Carbon Δ
R727	QRD149J-100S	10 Ω	1/4 W	Carbon Δ
R728	QRD149J-100S	10 Ω	1/4 W	Carbon Δ
R729	QRD149J-100S	10 Ω	1/4 W	Carbon Δ
R730	QRD149J-100S	10 Ω	1/4 W	Carbon Δ
R731	ERF032K-R47	0.47 Ω	3 W	Cement Δ
R732	ERF032K-R47	0.47 Ω	3 W	Cement Δ
R733	QRD149J-101S	100 Ω	1/4 W	Carbon Δ
R743	QRD149J-4R7S	4.7 Ω	1/4 W	Carbon Δ
R744	QRD149J-4R7S	4.7 Ω	1/4 W	Carbon Δ
R745	QRD129J-100	10 Ω	1/2 W	Carbon Δ
R746	QRD129J-100	10 Ω	1/2 W	Carbon Δ
R747	QRD129J-221	220 Ω	1/2 W	Carbon Δ
R748	QRD129J-221	220 Ω	1/2 W	Carbon Δ
R749	QRD129J-472	4.7 k Ω	1/2 W	Carbon Δ
R801	QRD141J-222S	2.2 k Ω	1/4 W	Carbon
R802	QRD141J-222S	2.2 k Ω	1/4 W	Carbon
R803	QRD141J-183S	18 k Ω	1/4 W	Carbon
R804	QRD141J-183S	18 k Ω	1/4 W	Carbon
R805	QRD141J-683S	68 k Ω	1/4 W	Carbon
R806	QRD141J-683S	68 k Ω	1/4 W	Carbon
R807	QRD141J-473S	47 k Ω	1/4 W	Carbon
R808	QRD141J-473S	47 k Ω	1/4 W	Carbon
R809	QRD141J-223S	22 k Ω	1/4 W	Carbon

Resistors

Item No.	Part Number	Rating		Description
R810	QRD141J-682S	6.8 k Ω	1/4 W	Carbon
R811	QRD141J-683S	68 k Ω	1/4 W	Carbon
R812	QRD141J-563S	56 k Ω	1/4 W	Carbon
R813	QRD141J-273S	27 k Ω	1/4 W	Carbon
R814	QRD141J-184S	180 k Ω	1/4 W	Carbon
R815	QRG027J-391	390 Ω	2 W	O.M. Film Δ
R816	QRD141J-273S	27 k Ω	1/4 W	Carbon
R817	QRD141J-183S	18 k Ω	1/4 W	Carbon
R818	QRD141J-683S	68 k Ω	1/4 W	Carbon
R819	QRD141J-562S	5.6 k Ω	1/4 W	Carbon
R820	QRD149J-331S	330 Ω	1/4 W	Carbon Δ
R901	QRZ0052-101	100 Ω	1/4 W	Carbon Δ
R902	QRG019J-182S	1.8 k Ω	1 W	O.M. Film Δ
R903	QRD141J-682S	6.8 k Ω	1/4 W	Carbon
R904	QRD141J-104S	100 k Ω	1/4 W	Carbon
R905	QRD141J-333S	33 k Ω	1/4 W	Carbon
R906	QRD149J-220S	22 Ω	1/4 W	Carbon Δ

Others

Item No.	Part Number	Rating	Description
	E10734-101 QMV5005-004 E301842-003 E301842-004 SBSB3008Z		Cir Board 4P Plug Ass'y Heat Sink Bkt Heat Sink Bkt Tapping Screw
	SBSE3012Z E302238-002 E67357-002 E302325-001 E65396-001		Screw Heat Sink Heat Sink LED Holder Earth Plate
S401 S501 S601 RY701	QST44A2-E01 QST2101-E01 QST4241-E03 ESK5D24-215		Push Switch Push Switch Push Switch Relay

7-(2) TPS-292E/292FBS
AC P.C. Board Ass'y
[for Europe, West Germany, U.K. and Australia]

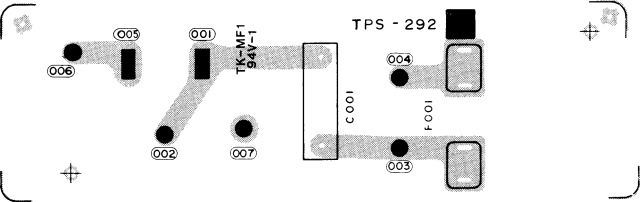


Fig. 12

7-(4) TPS-329A
AC P.C. Board Ass'y
[for U.S.A. and Canada]

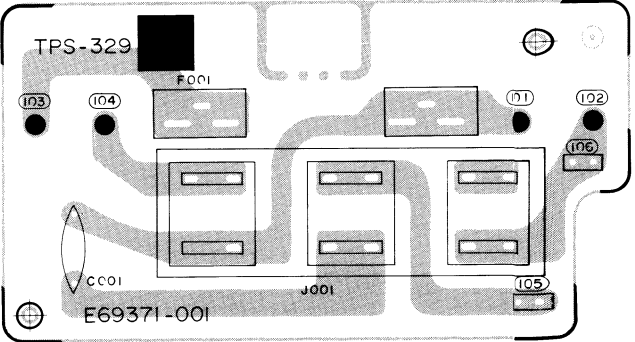


Fig. 14

7-(3) TPS-334A
AC P.C. Board Ass'y
[for U.S. Military Market and Other Countries]

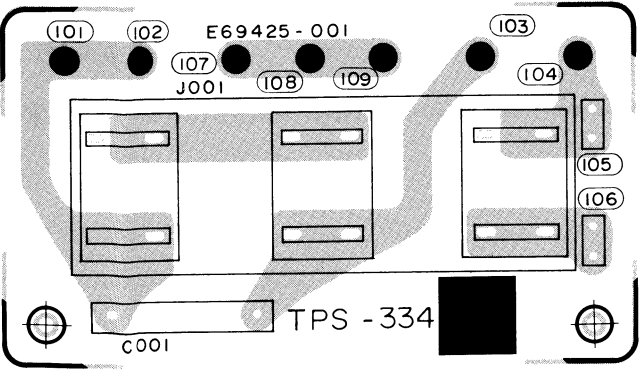


Fig. 13

TPS-292E/292FBS

Item No.	Part Number	Rating	Description
C001	QFZ9010-103	0.01 μ F	Film (for TPS-292E)
C001	QFZ9010-103BS	0.01 μ F	Film (for TPS-292FBS)
	E48965-002		Fuse Clip
	E67790-001		Circuit Board (for TPS-292E)
	E67790-001BS		Circuit Board (for TPS-292FBS)

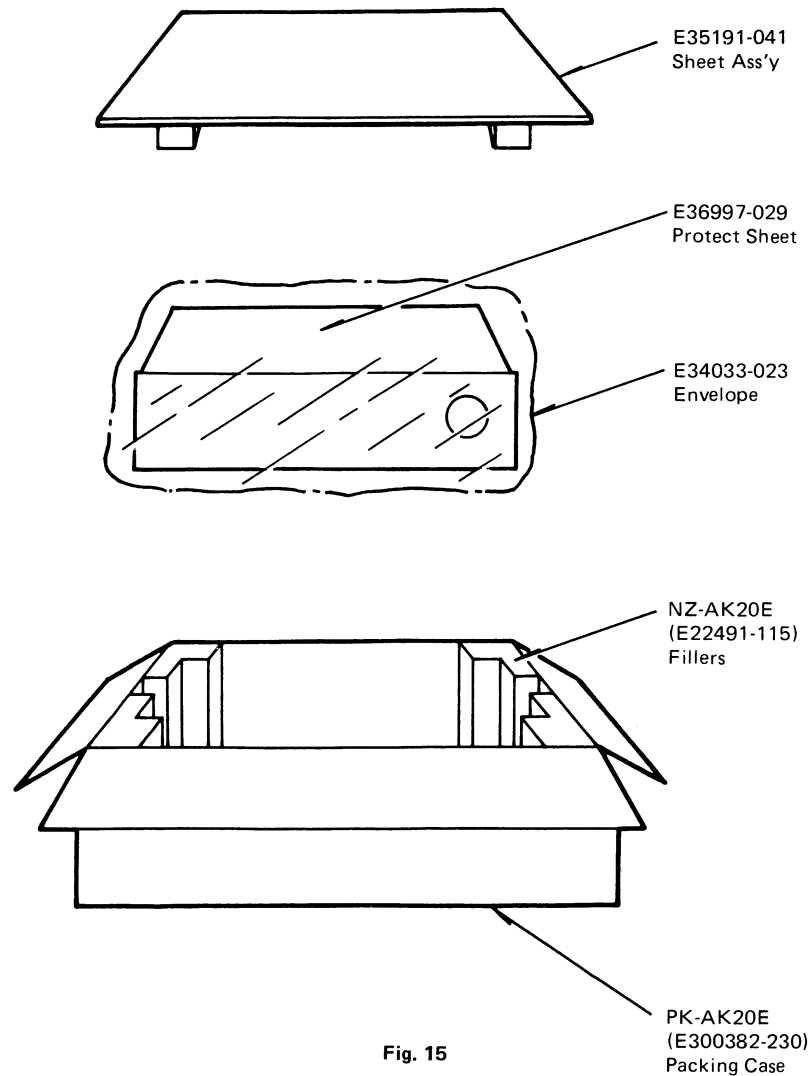
TPS-334A

Item No.	Part Number	Rating	Description
C001	QFZ9010-103	0.01 μ F	Film
	QMC0637-004		AC Outlet
	E69425-001		Circuit Board

TPS-329A

Item No.	Part Number	Rating	Description
C001	QCZ9014-103A	0.01 μ F	Ceramic Capacitor
	QMC0637-004		AC Outlet
	E03675-004		Fuse Clip
	E69371-001		Circuit Board

9. Packing Materials Part Numbers



10. Accessories List

Item No.	Part Number	Description	Q'ty
1	E30580-1006B	Instruction Book (for U.K., E30580-1006BBS)	1
2	See back cover	Warranty Card	1
3	E41202-2	Envelope for Instruction Book and Warranty Card	1
4	E66416-003	Envelope for Warranty Card (for U.S.A. and Canada)	1
5	BT20044B	JVC Safety Instruction Sheet (for U.S.A. only)	1
6	BT20046	Service Information Card (for U.S.A. and U.S. Military Market)	1
7	See back cover	Fuses (within)	1
8	E64204-073	Envelope for Fuses (within)	1

11. Parts List with Specified Numbers for Designated Areas

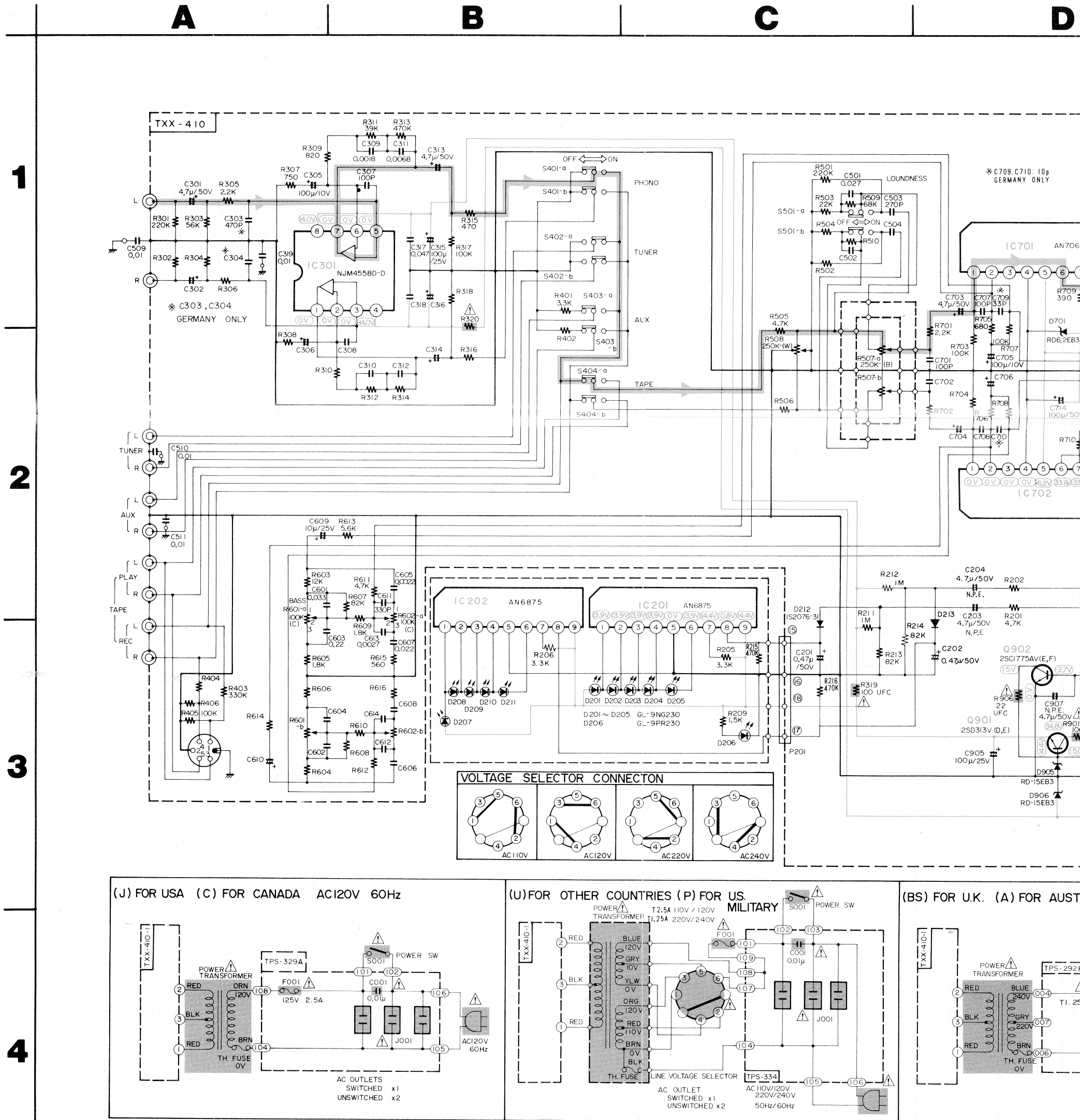
Item No.	Description	USA & Canada	U.K.	Europe	West Germany	Australia	US Military Market & Other Countries
1	Chassis Base	E10672-002	E10672-004	E10672-004	E10672-004	E-10672-004	E10672-002
2	Rear Panel	E24155-004	E24155-006	E24155-006	E24155-006	E24155-006	E24155-005
3	Mask Plate	E68303-001	—	—	—	—	—
4	Power Transformer \triangle	ETP1070-04JA (for U.S.A.) ETP1070-04CA (for Canada)	ETP1070-04EABS	ETP1070-04EA	ETP1070-04EA	ETP1070-04EA	ETP1070-04FA
5	Power Switch \triangle	QSP1110-308	QSP1110-305BS	QSP1110-305	QSP1110-305	QSP1110-305	QSP1110-305
6	Switch Cover \triangle	—	E301869-001	E301869-001	E301869-001	E301869-001	E301869-001
7	Power Cord \triangle	QMP1200-200	QMP9017-008BS	QMP3900-200	QMP3900-200	QMP2560-244	QMP7600-250
8	Siemens Plug \triangle	—	—	—	—	—	E04056
9	Cord Stopper \triangle	QHS3876-162	QHS3876-162BS	QHS3876-162	QHS3876-162	QHS3876-162	QHS3876-162
10	Voltage Selector \triangle	—	—	—	—	—	QSR0085-001U
11	AC Outlet \triangle	QMC0637-004	—	—	—	—	QMC0637-004
12	Fuse Socket \triangle	—	—	—	—	—	QMG0301-003
13	Fuse Primary \triangle	QMF61U1-2R5	QMF51A2-1R25LBS	QMF51A2-1R25L	QMF51A2-1R25L	QMF51A2-1R25L	QMF51A2-1R25L or QMF51A2-2R5L
14	Fuse (within) \triangle	—	—	—	—	—	QMF51A2-1R25L or QMF51A2-2R5L
15	Pin Jack	E03591-41F	—	—	—	—	—
16	Din/Pin Jack	—	E03591-002	E03591-002	E03591-002	E03591-002	E03591-002
17	AC P.C. Board	TPS-329A	TPS-292FBS	TPS-292E	TPS-292E	TPS-292E	TPS-334A
18	Main Amp. P.C. Board	TXX-410A	TXX-410B	TXX-410B	TXX-410D	TXX-410B	TXX-410C
19	Warranty Card	BT20048 (for U.S.A.) BT20025D (for Canada)	BT20013C	—	BT20057	BT20029C	BT20048 (for U.S., Military Market only)

\triangle : Safety parts

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8. A-K20 Schematic Diagram

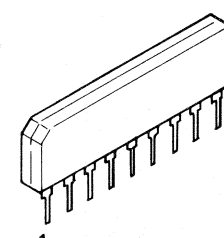
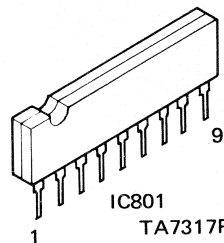
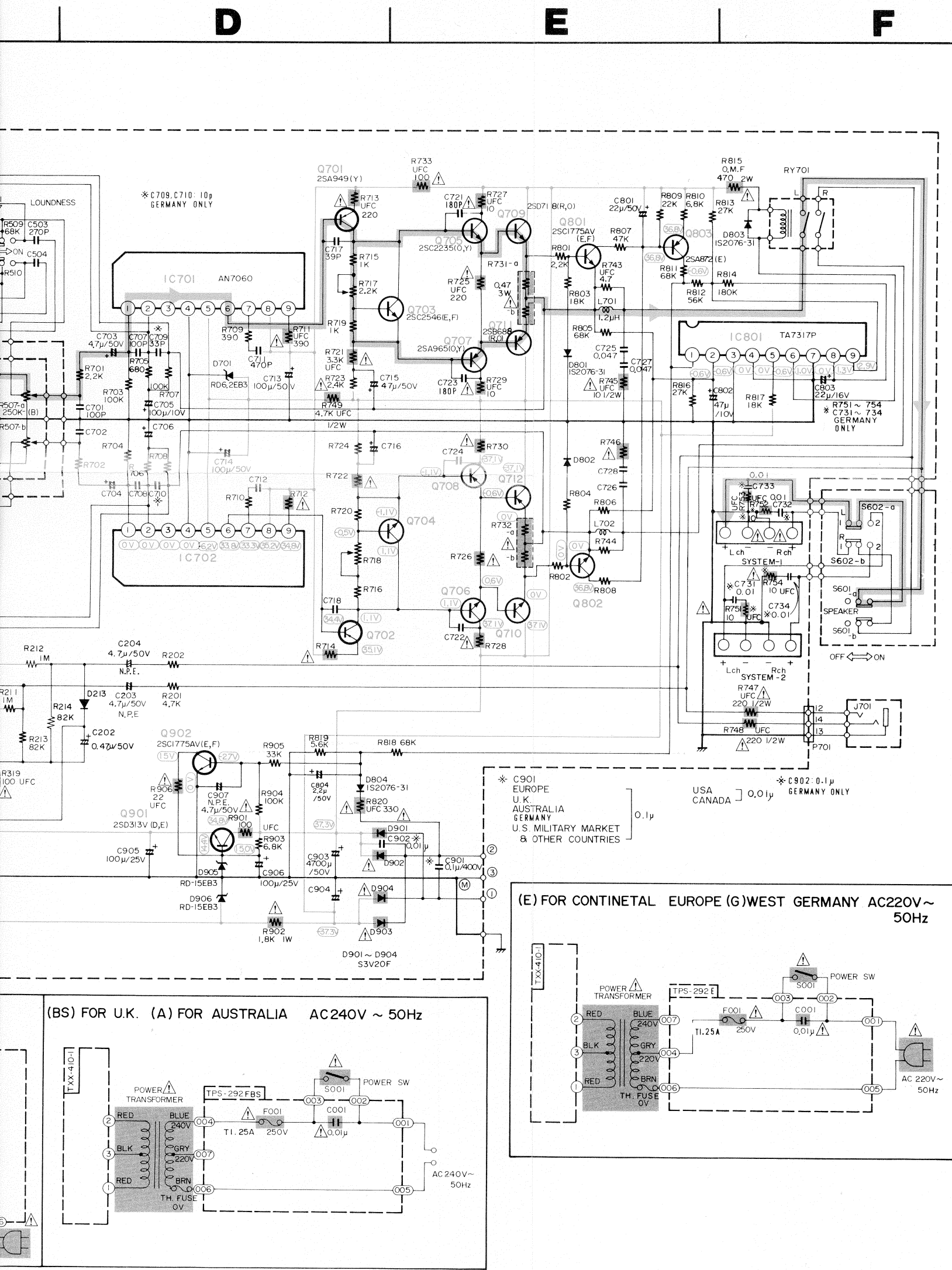


Printed Circuit Board Ass'y Locations

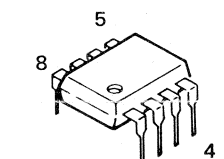
P.C. Board Ass'y	Description	Page
TXX-410A/B/C/D	Main Amp. P.C. Board Ass'y	6
TPS-292E/FBS	AC P.C. Board Ass'y	9
TPS-334A	"	9
TPS-329A	"	9

Notes:

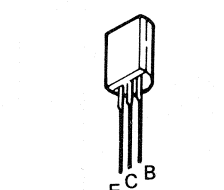
1. Voltage values in  are positive.
2. Voltage values in  are negative.
3.  indicates positive B power supply.
4.  indicates negative B power supply.
5.  indicates signal path.
6. When replacing the parts in the darkened area () and those marked with , be sure to use the designated parts to ensure safety.
7. Parts in red indicate transistors or ICs.
8. This is the standard circuit diagram.
The design and contents are subject to change without notice.



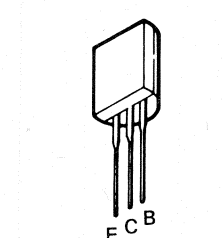
IC701, 702
AN7060



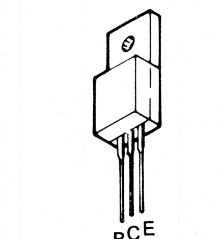
IC301
NJM4558D-D



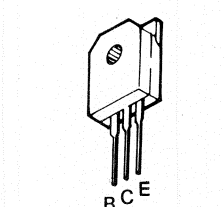
Q801,802
2SC1775AV (E,F)
Q803
2SA872AV(E)
Q902
2SC1775AV (E,F)



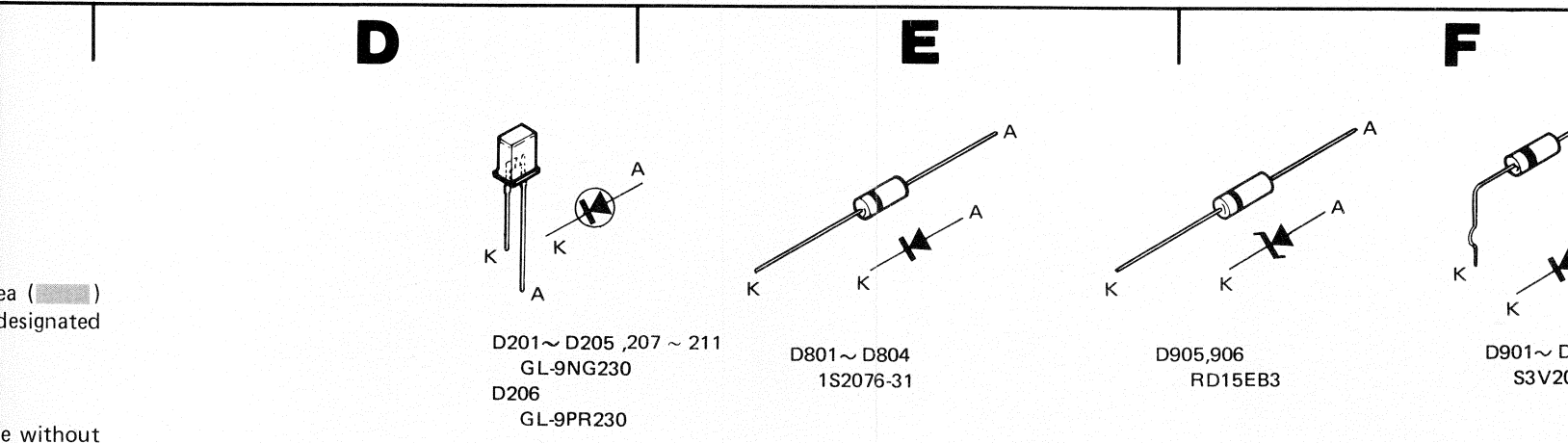
Q705,706
2SC2235 (O,Y)
Q707,708
2SA965 (O,Y)



Q901
2SD313V (D,E)



Q711,712
2SB688 (R,O)



D201~D205, 207~211
GL-9NG230
D206
GL-9PR230

D801~D804
1S2076-31

D905,906
RD15EB3

D901~D904
S3V20F